



# IPC (Integrated Physics and Chemistry)

## Instructional Plan: Fall Semester

### Course Overview

Welcome to IPC.

### Contact Information

Teacher Name: Makayla Makhanu

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Phone: 432-240-4700

### Classroom Expectations

**Be Respectful** – Listen. Use kind words. Treat everyone and everything with care.

**Be Responsible** – Be on time. Bring what you need. Start bellwork immediately.

**Follow Directions** – Do what's asked the first time. Raise your hand to speak.

**Stay Focused** – Sit where you're supposed to. Keep your area tidy. Participate.

**Stay Positive** – Try your best. Learn from mistakes. Keep growing.

### Attendance Policy & Its Importance

#### Attendance Is the First Step to Success

Coming to school every day ensures every student gets the instruction, connections, and support they need to learn, belong, and grow. Missing just a few days can create gaps in learning—but showing up builds confidence, community, and a path toward long-term achievement.

**Please notify the school if your child will be absent.** Frequent or extended absences may make it more difficult for your child to learn necessary foundational skills that ensure student success this year and in future school years.

### Learning Objectives

By the end of the first semester, students will be able to:

#### TEKS

#### Integrated Physics and Chemistry (IPC) TEKS Overview

**Legal Reference:** §112.36 — IPC (One Credit)

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### Course Description

IPC blends foundational concepts from physics and chemistry to build a broad understanding of physical science. It's often designed for 9th or 10th graders who want an introductory course before taking separate physics or chemistry classes.



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### Key Content Areas

Domain	Key Concepts & Skills
<b>Scientific Investigation &amp; Reasoning</b>	<ul style="list-style-type: none"><li>- Use scientific methods, design experiments, collect and analyze data</li><li>- Use technology and tools safely and accurately</li></ul>
<b>Matter and Its Interactions</b>	<ul style="list-style-type: none"><li>- Properties and classification of matter</li><li>- Atomic structure and periodic table basics</li><li>- Chemical reactions and equations</li></ul>
<b>Motion and Forces</b>	<ul style="list-style-type: none"><li>- Concepts of speed, velocity, acceleration</li><li>- Newton's laws of motion</li><li>- Forces and energy transformations</li></ul>
<b>Energy</b>	<ul style="list-style-type: none"><li>- Forms of energy (kinetic, potential, thermal, chemical)</li><li>- Conservation of energy and energy transfer</li></ul>
<b>Waves</b>	<ul style="list-style-type: none"><li>- Characteristics of waves (amplitude, wavelength, frequency)</li><li>- Electromagnetic spectrum and wave applications</li></ul>
<b>Earth and Space Science</b>	<ul style="list-style-type: none"><li>- Earth's structure and plate tectonics</li><li>- Weather, climate, and atmospheric processes</li></ul>
<b>Technology and Society</b>	<ul style="list-style-type: none"><li>- Impacts of scientific advancements</li><li>- Career opportunities in STEM fields</li></ul>

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### Scientific Practices

- Conduct experiments safely and accurately
- Analyze data quantitatively and qualitatively
- Communicate scientific findings effectively
- Use models and simulations to explain concepts

### Course Resources

- integrated Physics and Chemistry Student Edition, McGraw Hill

### Grading Policy



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*According to Midland ISD Grading Policy:*

[Student Handbook](#)

## **School-wide System of Communication**

Families can reach out by email, phone, or messages during school hours. We are to hear, to listen, to answer questions, and support you both.

Please feel free to reach out with any questions or concerns. We are excited to work together to make this a successful year of learning!

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**Please fill out the portion below and return this portion to your teacher.**

We acknowledge that we have read and that we understand the expectations in [grade level or course]. We agree to contact the teacher should we have any questions or concerns regarding this instructional plan.

Parent Name: \_\_\_\_\_

Student Name: \_\_\_\_\_

Cell Phone Number: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Parent Signature : \_\_\_\_\_

Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_